



A.D. 1871, 3rd MARCH. N° 576.

SPECIFICATION

OF

JOHN DUNKLEY.

SEWERS, &c.

LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,

PRINTERS TO HER MAJESTY'S MOST EXCELLENT MAJESTY:

PUBLISHED AT THE GREAT SEAL PATENT OFFICE,

22, BOSTHAMPTON BUILDINGS, HOLBORN.

11. 12.

1871.



A.D. 1871, 3rd MARCH. N° 576.

Sewers, &c.

LETTERS PATENT to John Dunkley, of Adelaide Villas, Park Road, Teddington, in the County of Middlesex, Builder, for the Invention of “**IMPROVEMENTS IN SEWERS AND THE TREATMENT AND DISTRIBUTION OF SEWAGE MANURE.**”

Sealed the 8th August 1871, and dated the 3rd March 1871.

PROVISIONAL SPECIFICATION left by the said John Dunkley at the Office of the Commissioners of Patents, with his Petition, on the 3rd March 1871.

I, JOHN DUNKLEY, of Adelaide Villas, Park Road, Teddington, in the
5 County of Middlesex, Builder, do hereby declare the nature of the said Invention for “**IMPROVEMENTS IN SEWERS AND THE TREATMENT AND DISTRIBUTION OF SEWAGE MANURE,**” to be as follows :—

I construct the main or principal sewers with stone, earthenware, iron, or wood portions at convenient intervals each already bored with
10 a plugged aperture suitable for the insertion afterwards of the end of a drain pipe when required to be connected. The sewage passes along two separate passages one in each side of the drain and with covers removable in portions by the men who can traverse the drain walking dry between the two passages. The sewage being afterwards raised to
15 the elevation for the flow required is drawn off by a pipe into which water may be admitted at discretion through a tube from a cistern

Dunkley's Improvements in Sewers, &c.

so as to regulate and facilitate the flow through branch pipes with taps at convenient places into tanks where the sewage is mixed with loam, earth, or other proper material for use as manure.

SPECIFICATION in pursuance of the conditions of the Letters Patent, filed by the said John Dunkley in the Great Seal Patent Office on 5 the 31st August 1871.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, JOHN DUNKLEY, of Adelaide Villas, Park Road, Teddington, in the County of Middlesex, Builder, send greeting.

WHEREAS Her most Excellent Majesty Queen Victoria, by Her 10 Letters Patent, bearing date the Third day of March, in the year of our Lord One thousand eight hundred and seventy-one, in the thirty-fourth year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said John Dunkley, Her special licence, that I, the said John Dunkley, my executors, administrators, and 15 assigns, or such others as I, the said John Dunkley, my executors, administrators, and assigns, should at any time agree with, and no others, from time to time and at all times thereafter during the term therein expressed, should and lawfully might make, use, exercise, and vend, within the United Kingdom of Great Britain and Ireland, the 20 Channel Islands, and Isle of Man, Colonies to be mentioned, if any, an Invention for "**IMPROVEMENTS IN SEWERS AND THE TREATMENT AND DISTRIBUTION OF SEWAGE MANURE**," upon the condition (amongst others) that I, the said John Dunkley, my executors or administrators, by any instrument in writing under my, or their, or one of their hands and 25 seals, should particularly describe and ascertain the nature of the said Invention, and in what manner the same was to be performed, and cause the same to be filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said Letters Patent.

NOW KNOW YE, that I, the said John Dunkley, do hereby declare 30 the nature of my said Invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement (that is to say):—

Fig. 1 of the accompanying Drawings represents those parts of my Invention which relate to the portions for the ends of drain pipes and 35

Dunkley's Improvements in Sewers, &c.

the separate passages in the same; Fig. 2 represents separately one of such portions of the wall with the apertures for drain pipes in vertical section across the sewer; Fig. 3 represents the same in vertical section along the sewer.

5 Fig. 4 represents in side elevation, and Fig. 5 in plan the arrangements for raising the sewage and for its flow through branch pipes. The same letters indicate similar parts in all the figures.

I form the portions of the wall of a sewer at convenient intervals of the requisite shape for inserting a drain pipe or pipes which in the
10 figures are shewn as circular in section and as in the side wall, but the openings may be of any shape and the portion may be in any part of the sewer walls or roof, and one portion for one pipe may be separate or adjoining the portion for another.

A, B, are two drain pipes coming in through C a portion formed to
15 receive them, and bringing sewage into D, one of the two separate passages covered by E a moveable cover, and so placed that a man can walk between the two upon the floor F. The sewage being next led on to the part G (Figs. 4, 5,) flows along two tanks H, H, and water introduced by the sluice I from the pipe J either from a reservoir or
20 from the main service pipe or other supply so as to have a head or pressure forces the sewage by the pipe K to one or more branch pipes L, L, L, in Fig. 5, one of which is represented as taking the water and sewage to a pit M where it may be mixed with loam or otherwise treated and then be drawn off as required.

25 I claim as my Invention the constructing portions of sewers to admit drain pipes, also the constructing the sewer in two separate passages with moveable covers, also the arrangements for raising the sewage, all as herein-before described

In witness whereof, I, the said John Dunkley, have hereunto set
30 my hand and seal, this Thirty-first day of August, in the year of our Lord One thousand eight hundred and seventy-one.

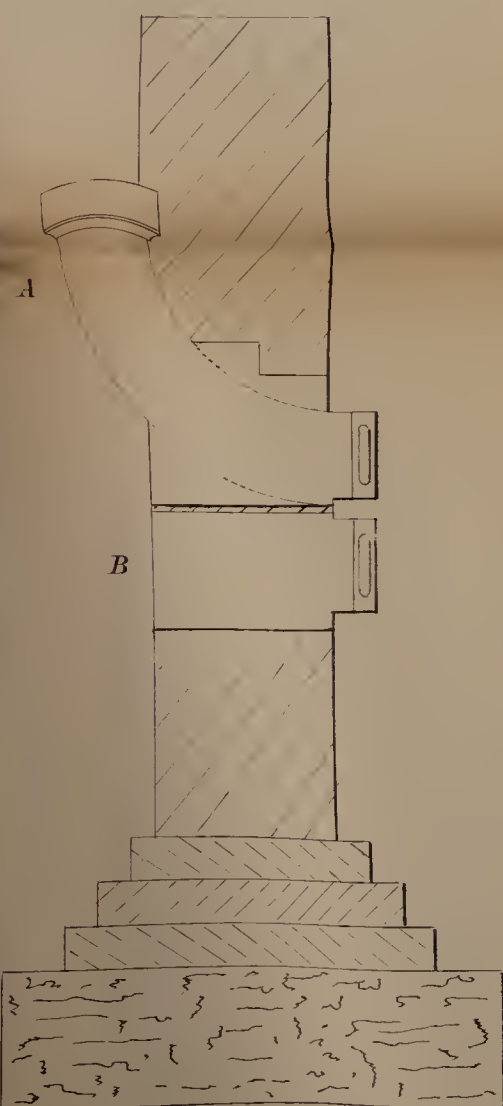
JOHN DUNKLEY. (L.S.)

LONDON:

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1871.

Level of Road

FIG. 2.



A

FIG. 3.



B



*Top Drain
Leading into Sewer*

FIG. 1.



B

Bottom Drain

B

E

Top to lift off

D

F

Main Sewer

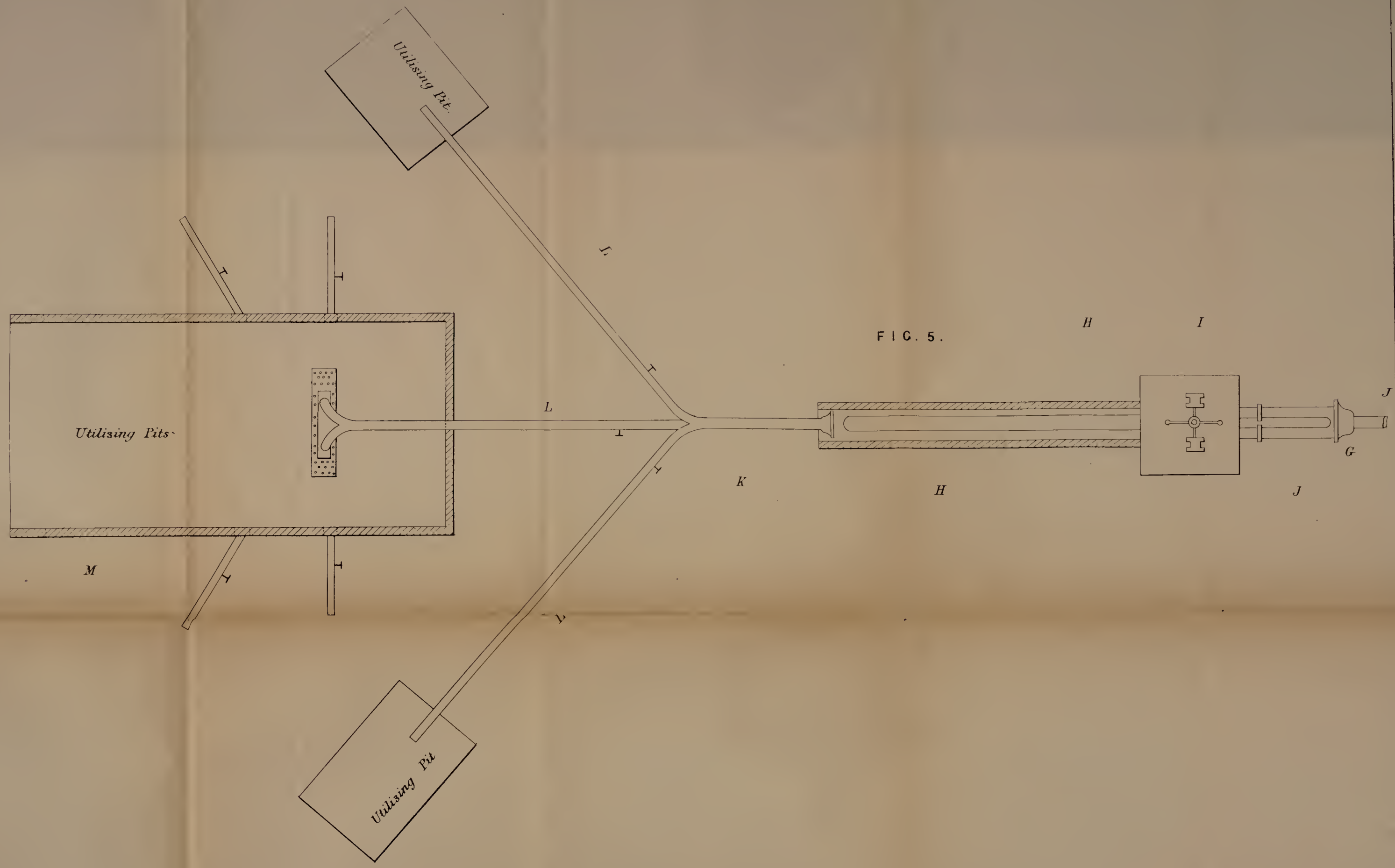


FIG. 5.

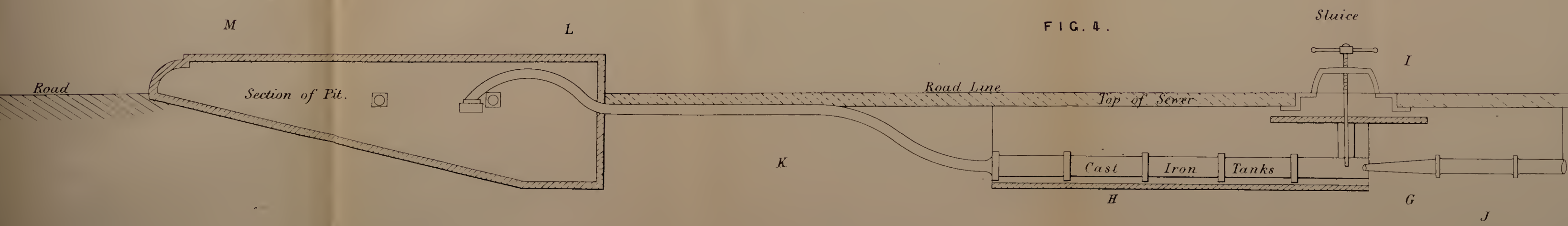


FIG. 4.

The filed drawing is not colored.

Drawn on Stone by Malby & Sons.

